FIG. 1

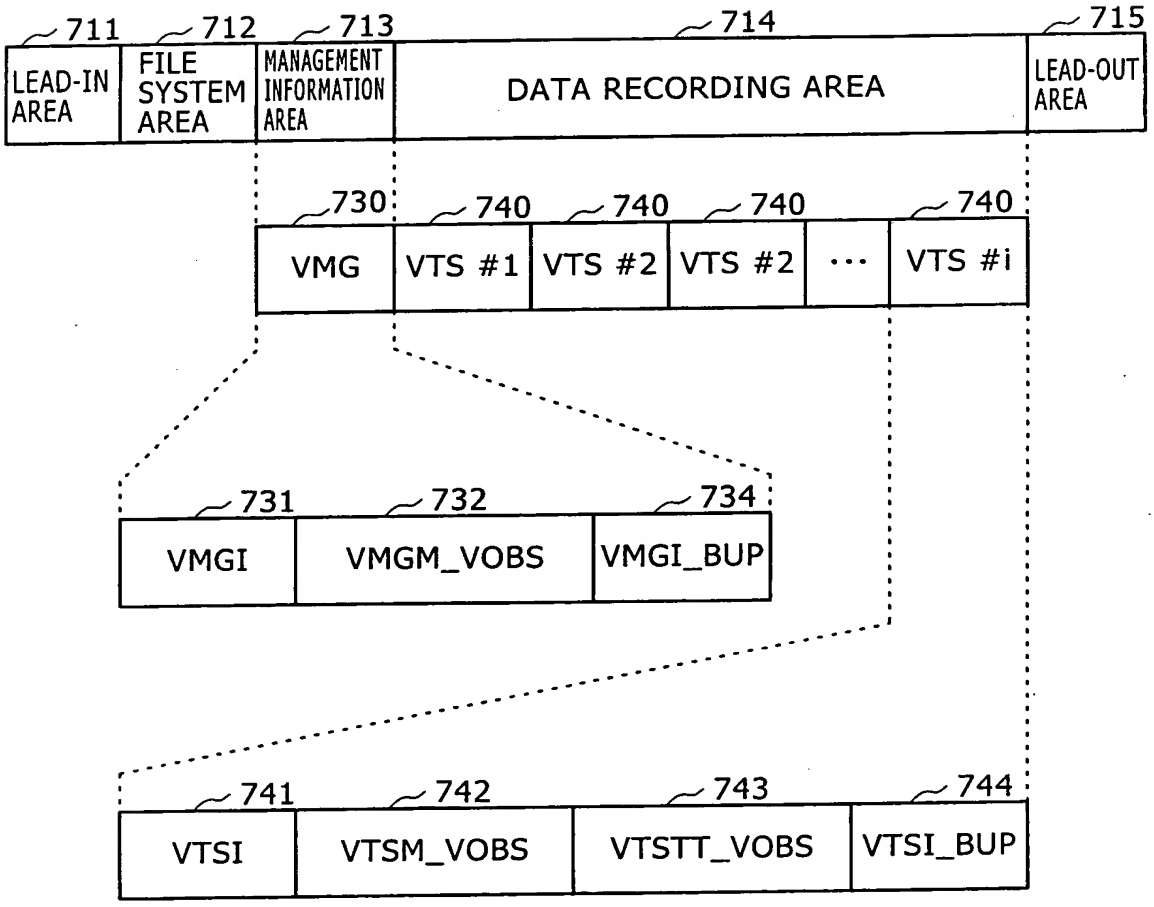

711
712
713
714
715
LEAD-IN AREA
FILE SYSTEM AREA
MANAGEMENT INFORMATION AREA
DATA RECORDING AREA
LEAD-OUT AREA
730
740
740
740
740
VMG
VTS #1
VTS #2
VTS #2
...
VTS #i
731
732
734
VMGI
VMGM_VOBS
VMGI_BUP
741
742
743
744
VTSI
VTSM_VOBS
VTSTT_VOBS
VTSI_BUP

FIG. 2

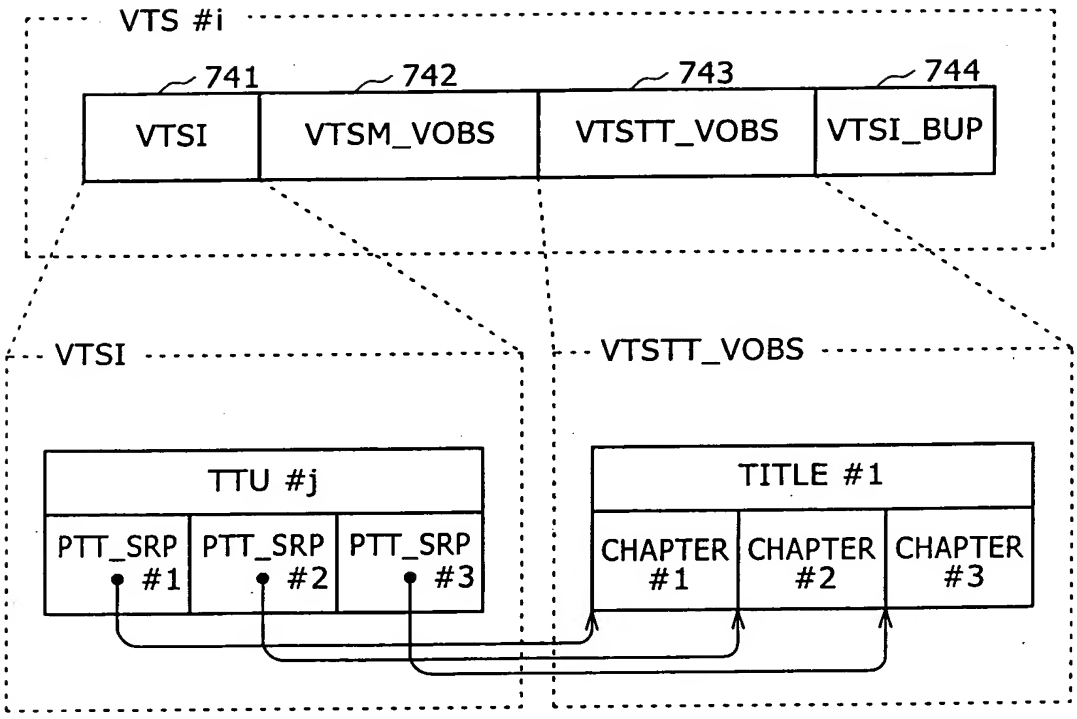

VTS #i
741
742
743
744
VTSI
VTSM_VOBS
VTSTT_VOBS
VTSI_BUP
VTSI
VTSTT_VOBS
TTU #j
PTT_SRP #1
PTT_SRP #2
PTT_SRP #3
TITLE #1
CHAPTER #1
CHAPTER #2
CHAPTER #3

FIG. 3

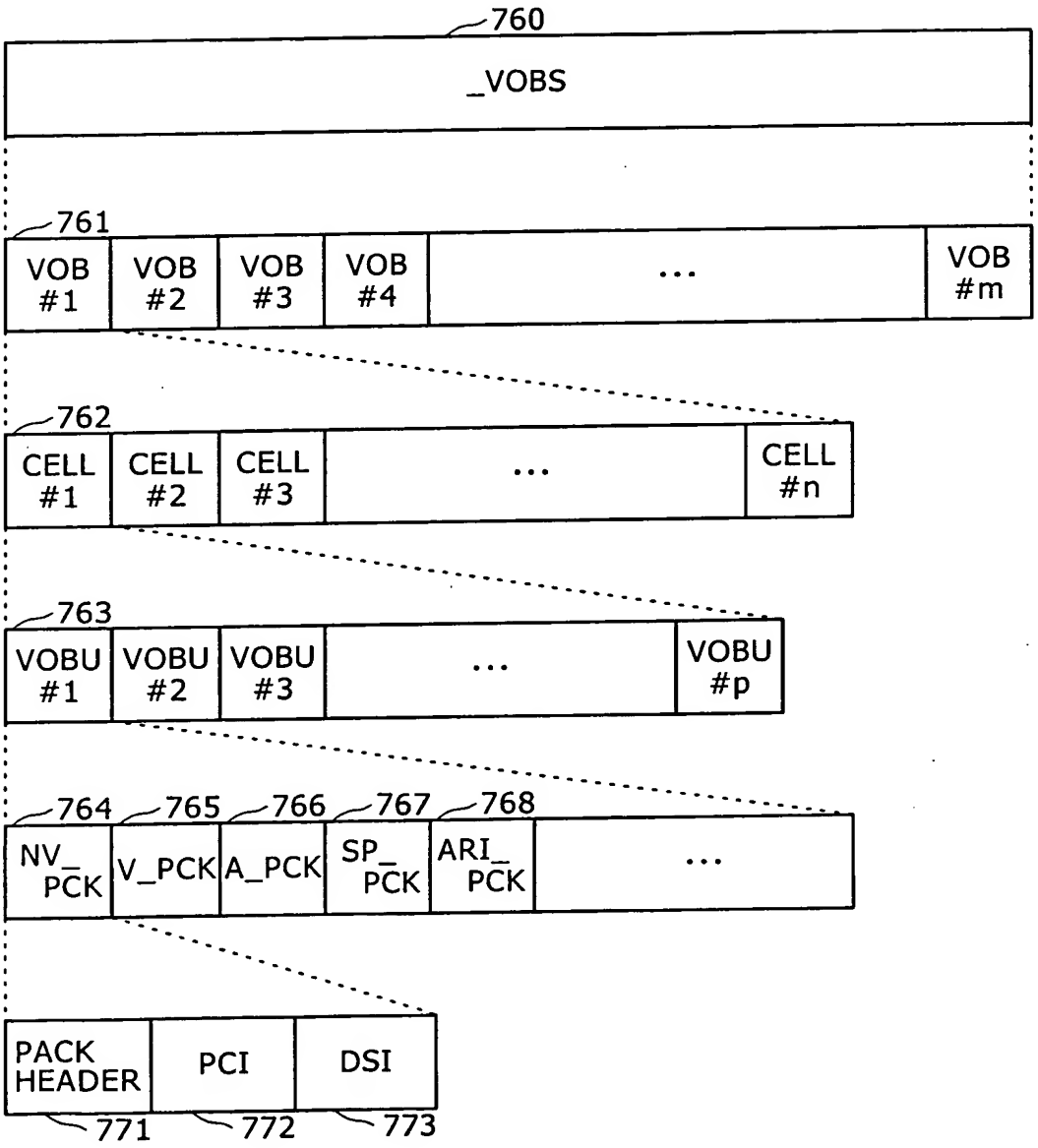

760
_VOBS
761
VOB #1
VOB #2
VOB #3
VOB #4
...
VOB #m
762
CELL #1
CELL #2
CELL #3
...
CELL #n
763
VOBU #1
VOBU #2
VOBU #3
...
VOBU #p
764
765
766
767
768
NV_ PCK
V_PCK
A_PCK
SP_ PCK
ARI_ PCK
...
PACK HEADER
PCI
DSI
771
772
773

FIG. 4

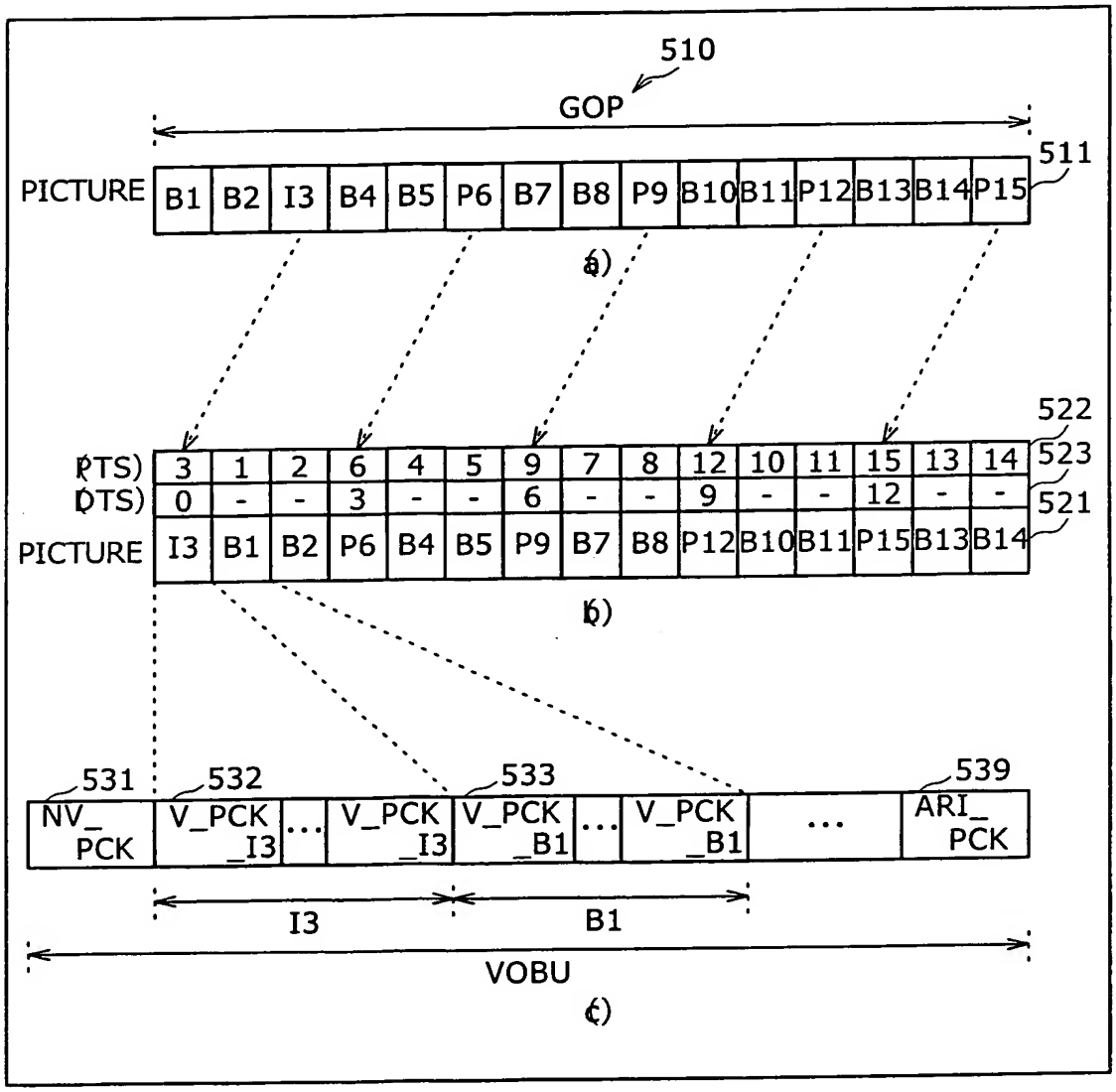

510
GOP
PICTURE
B1 B2 I3 B4 B5 P6 B7 B8 P9 B10 B11 P12 B13 B14 P15
511
a)
522
523
521
PTS) 3 1 2 6 4 5 9 7 8 12 10 11 15 13 14
DTS) 0 - - 3 - - 6 - - 9 - - 12 - -
PICTURE I3 B1 B2 P6 B4 B5 P9 B7 B8 P12 B10 B11 P15 B13 B14
b)
531
532
533
539
NV_ PCK
V_PCK _I3
V_PCK _I3
V_PCK _B1
V_PCK _B1
ARI_ PCK
I3
B1
VOBU
c)

FIG. 5

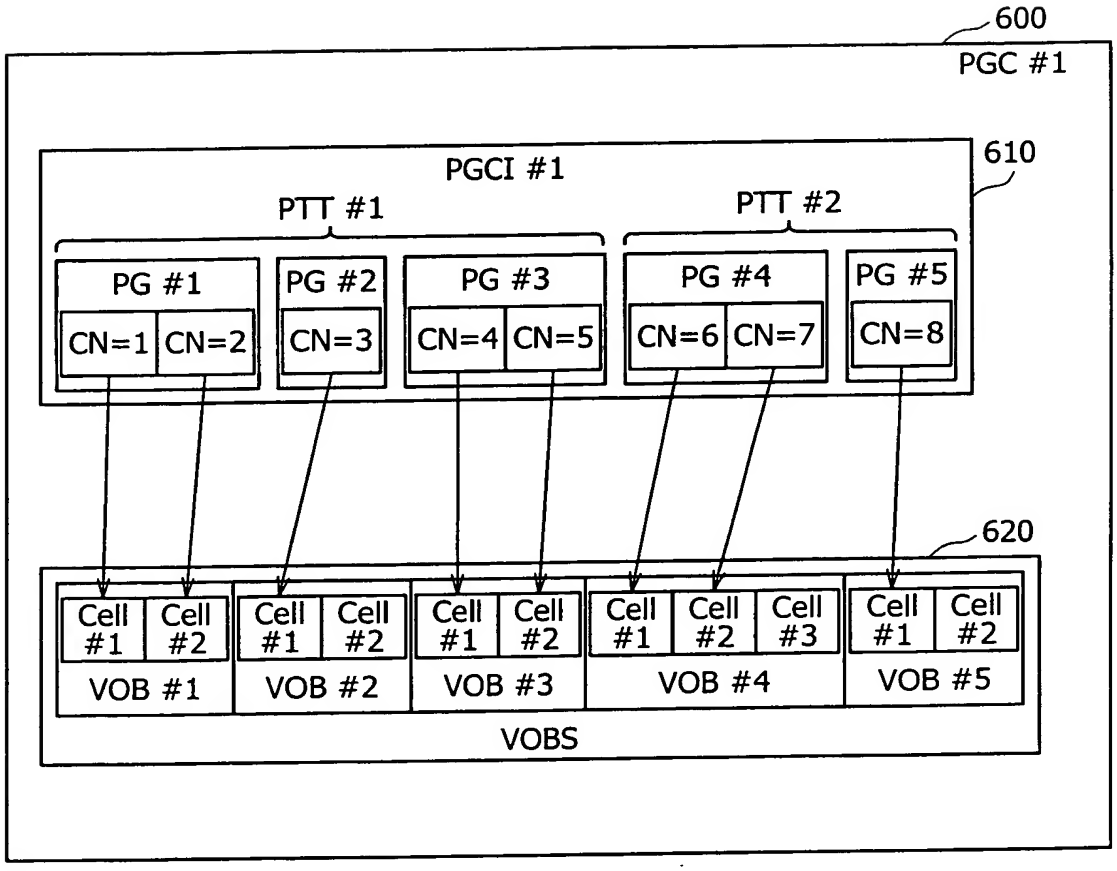

600
PGC #1
PGCI #1
610
PTT #1
PTT #2
PG #1
CN=1
CN=2
PG #2
CN=3
PG #3
CN=4
CN=5
PG #4
CN=6
CN=7
PG #5
CN=8
620
Cell #1
Cell #2
VOB #1
Cell #1
Cell #2
VOB #2
Cell #1
Cell #2
VOB #3
Cell #1
Cell #2
Cell #3
VOB #4
Cell #1
Cell #2
VOB #5
VOBS

FIG. 6

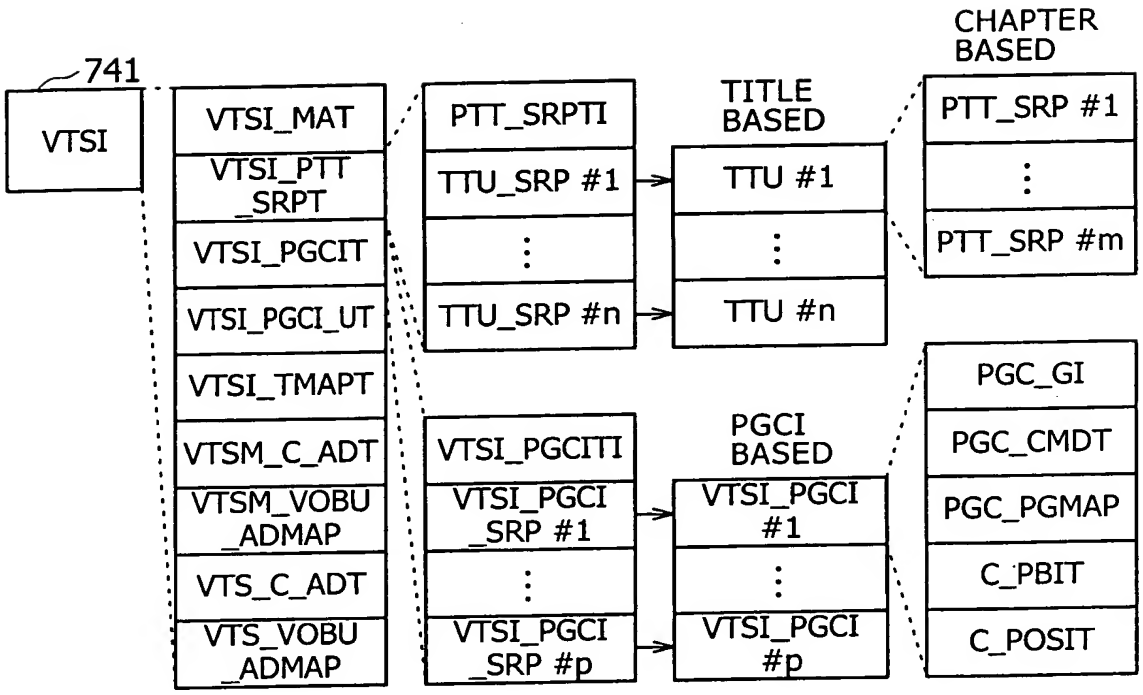

741
VTSI
VTSI_MAT
VTSI_PTT _SRPT
VTSI_PGCIT
VTSI_PGCI_UT
VTSI_TMAPT
VTSM_C_ADT
VTSM_VOBU _ADMAP
VTS_C_ADT
VTS_VOBU _ADMAP
PTT_SRPTI
TTU_SRP #1
TTU_SRP #n
VTSI_PGCITI
VTSI_PGCI _SRP #1
VTSI_PGCI _SRP #p
TITLE BASED
TTU #1
TTU #n
PGCI BASED
VTSI_PGCI #1
VTSI_PGCI #p
CHAPTER BASED
PTT_SRP #1
PTT_SRP #m
PGC_GI
PGC_CMDT
PGC_PGMAP
C_PBIT
C_POSIT

FIG. 7

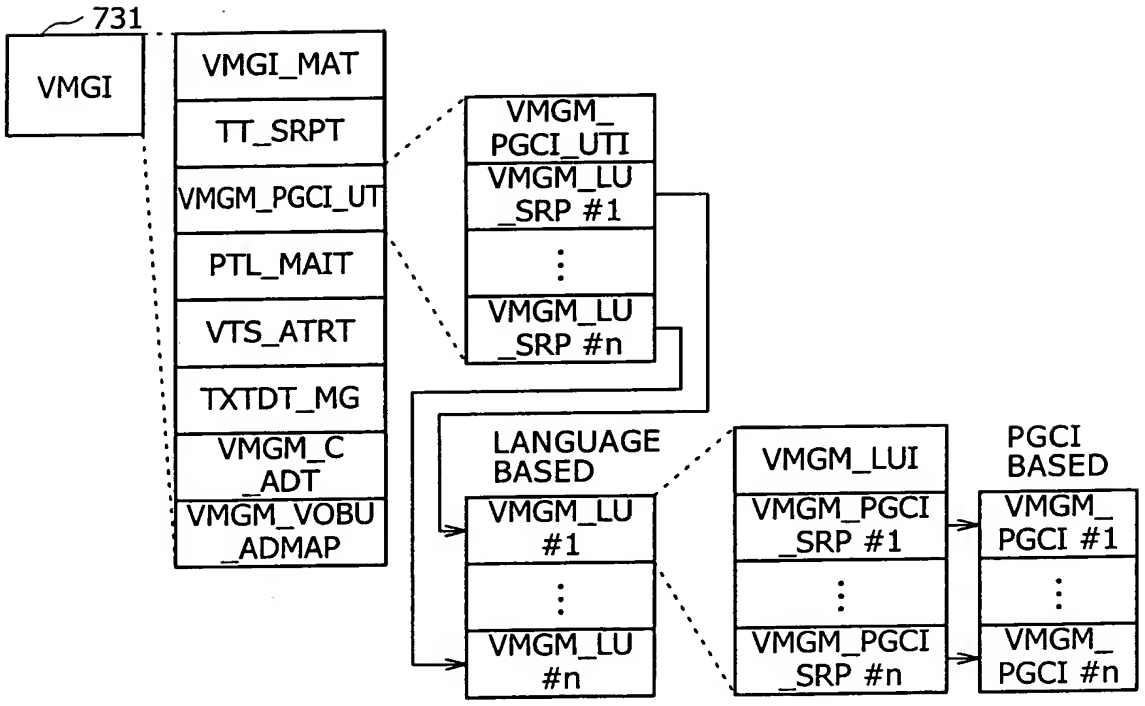

731
VMGI
VMGI_MAT
TT_SRPT
VMGM_PGCI_UT
PTL_MAIT
VTS_ATRT
TXTDT_MG
VMGM_C
_ADT
VMGM_VOBU
_ADMAP
VMGM_
PGCI_UTI
VMGM_LU
_SRP #1
VMGM_LU
_SRP #n
LANGUAGE
BASED
VMGM_LU
#1
VMGM_LU
#n
VMGM_LUI
VMGM_PGCI
_SRP #1
VMGM_PGCI
_SRP #n
PGCI
BASED
VMGM_
PGCI #1
VMGM_
PGCI #n

FIG. 8

768

ARI_PCK

ADDITIONAL RECORDING INFORMATION IDENTIFIER		
	ARI_DAT_ID	ADDITIONAL RECORDING INFORMATION DATA IDENTIFIER
	ARI_DAT_VER	ADDITIONAL RECORDING INFORMATION VERSION
APPLICATION INFORMATION		
	VND_NAME	VENDOR NAME
	PRD_NAME	PRODUCT NAME
	APL_ID	APPLICATION IDENTIFIER
	MNFI_DATA	MANUFACTURER INFORMATION DATA
	PRD_TYP	APPARATUS TYPE
RECORDING TIME INFORMATION		
	VOBU_LCL _TM_ZOME	TIME ZONE FOR ARI_DATA RECORDING
	VOBU_REC_TM	ARI_DATA RECORDING TIME
CAMERA INFORMATION		
	F_NUM	F NUMBER
	EXP_TM	EXPOSURE TIME
	EXP_PRG	EXPOSURE PROGRAM
	EXP_BIS_VAL	EXPOSURE CORRECTION VALUE
	AGC	GAIN VALUE
	MAX_APE_VAL	MINIMUM LENS F VALUE
	FLS	FLASH
	FCL_LEN	LENS FOCAL DISTANCE
	WHT_BAL	WHITE BALANCE
	SCN_CAP_TYP	SCENE CAPTURING TYPE
	FCS_MOD	FOCUS MODE
	FCS_POS	SUBJECT DISTANCE
	IMG_STB	CAMERA-SHAKE CORRECTION
	STB_LIM	CAMERA-SHAKE CORRECTION LIMIT
	DIG_ZOM	DIGITAL ZOOM RATIO
	EFFECT	EFFECT CAPTURING

FIG. 9

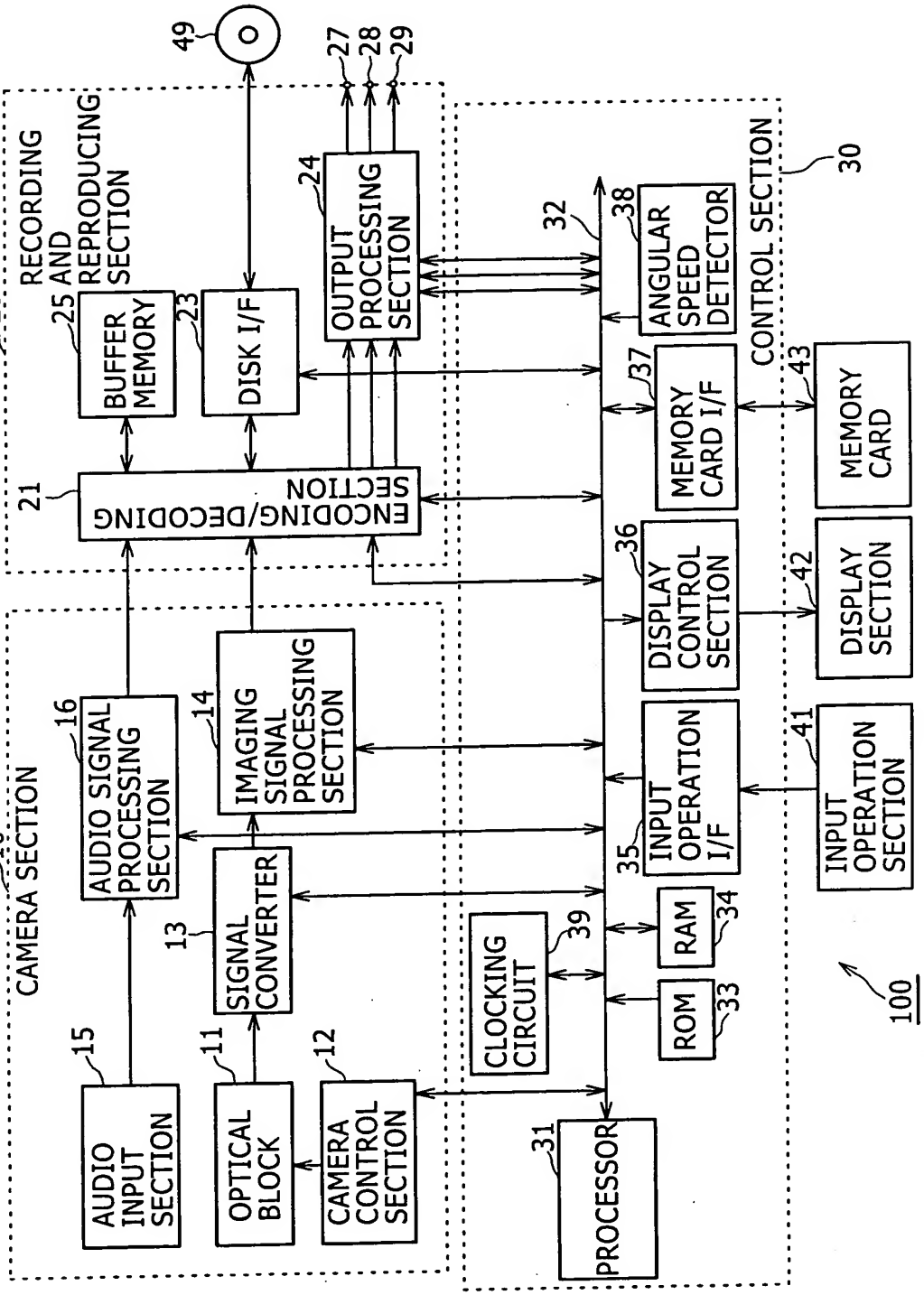

100
CAMERA SECTION
10
AUDIO INPUT SECTION
15
AUDIO SIGNAL PROCESSING SECTION
16
OPTICAL BLOCK
11
SIGNAL CONVERTER
13
CAMERA CONTROL SECTION
12
IMAGING SIGNAL PROCESSING SECTION
14
RECORDING AND REPRODUCING SECTION
20
ENCODING/DECODING SECTION
21
BUFFER MEMORY
25
DISK I/F
23
OUTPUT PROCESSING SECTION
24
49
27
28
29
CONTROL SECTION
30
PROCESSOR
31
CLOCKING CIRCUIT
39
ROM
33
RAM
34
INPUT OPERATION I/F
35
DISPLAY CONTROL SECTION
36
MEMORY CARD I/F
37
ANGULAR SPEED DETECTOR
38
32
INPUT OPERATION SECTION
41
DISPLAY SECTION
42
MEMORY CARD
43

FIG. 10

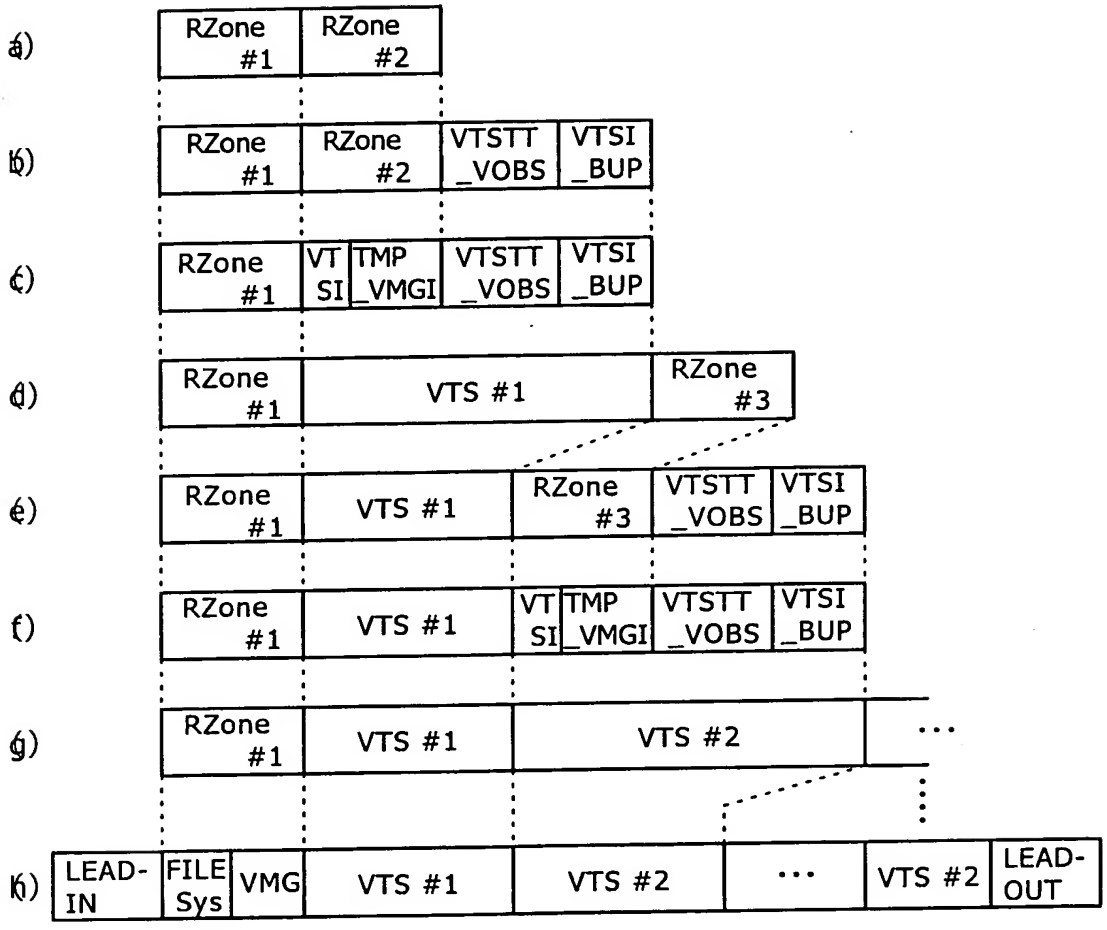

a)
RZone #1
RZone #2
b)
RZone #1
RZone #2
VTSTT _VOBS
VTSI _BUP
c)
RZone #1
VT SI
TMP _VMGI
VTSTT _VOBS
VTSI _BUP
d)
RZone #1
VTS #1
RZone #3
e)
RZone #1
VTS #1
RZone #3
VTSTT _VOBS
VTSI _BUP
f)
RZone #1
VTS #1
VT SI
TMP _VMGI
VTSTT _VOBS
VTSI _BUP
g)
RZone #1
VTS #1
VTS #2
...
h)
LEAD-IN
FILE Sys
VMG
VTS #1
VTS #2
...
VTS #2
LEAD-OUT

FIG. 11

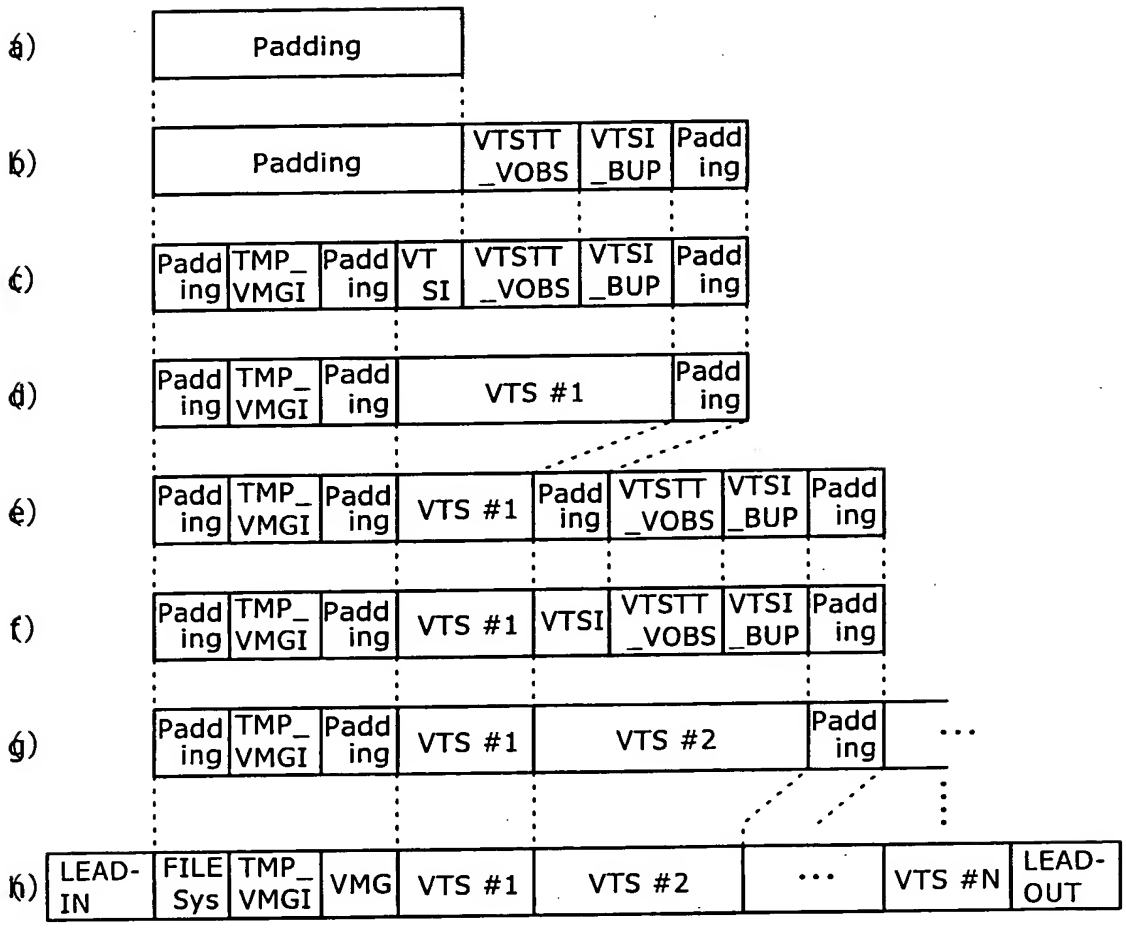

a)
Padding
b)
Padding
VTSTT _VOBS
VTSI _BUP
Padd ing
c)
Padd ing
TMP_ VMGI
Padd ing
VT SI
VTSTT _VOBS
VTSI _BUP
Padd ing
d)
Padd ing
TMP_ VMGI
Padd ing
VTS #1
Padd ing
e)
Padd ing
TMP_ VMGI
Padd ing
VTS #1
Padd ing
VTSTT _VOBS
VTSI _BUP
Padd ing
f)
Padd ing
TMP_ VMGI
Padd ing
VTS #1
VTSI
VTSTT _VOBS
VTSI _BUP
Padd ing
g)
Padd ing
TMP_ VMGI
Padd ing
VTS #1
VTS #2
Padd ing
...
h)
LEAD- IN
FILE Sys
TMP_ VMGI
VMG
VTS #1
VTS #2
...
VTS #N
LEAD- OUT

FIG. 12

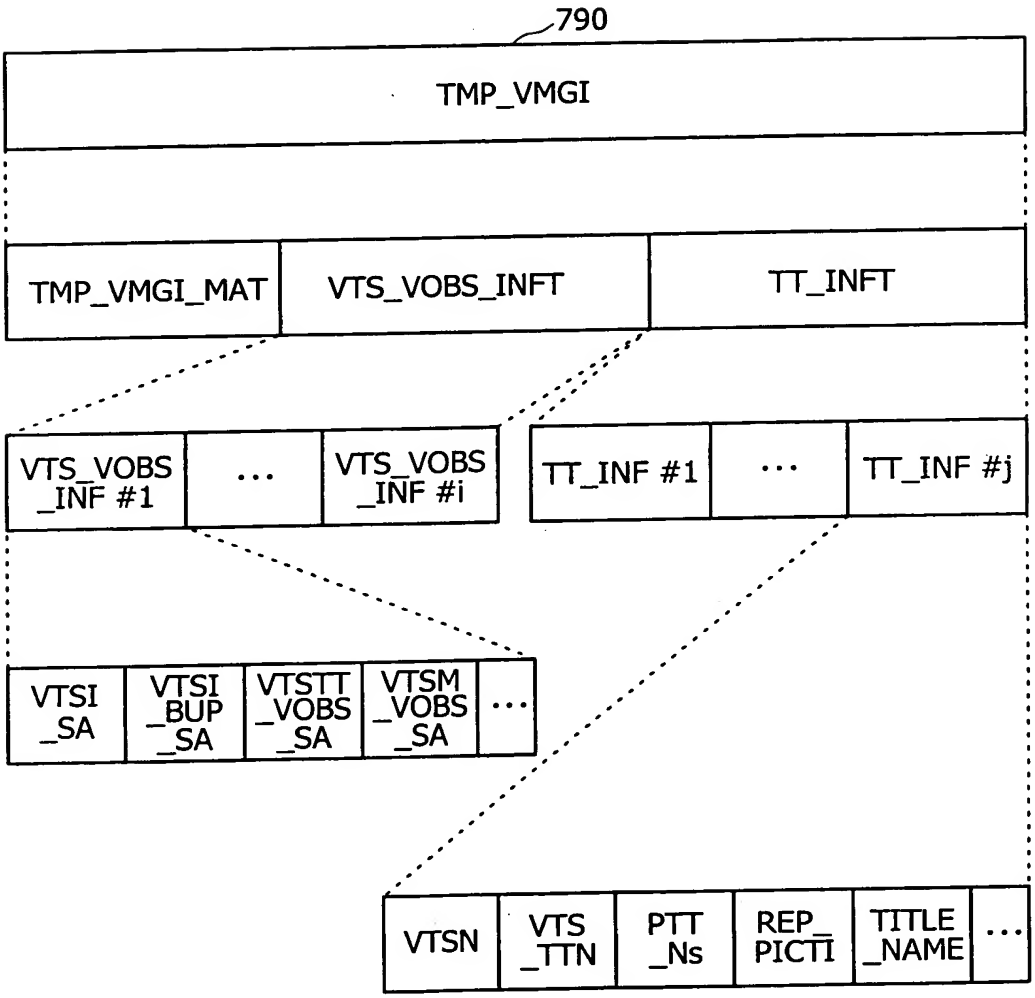

790
TMP_VMGI
TMP_VMGI_MAT
VTS_VOBS_INFT
TT_INFT
VTS_VOBS _INF #1
...
VTS_VOBS _INF #i
TT_INF #1
...
TT_INF #j
VTSI _SA
VTSI _BUP _SA
VTSTT _VOBS _SA
VTSM _VOBS _SA
...
VTSN
VTS _TTN
PTT _Ns
REP_ PICTI
TITLE _NAME
...

FIG. 13

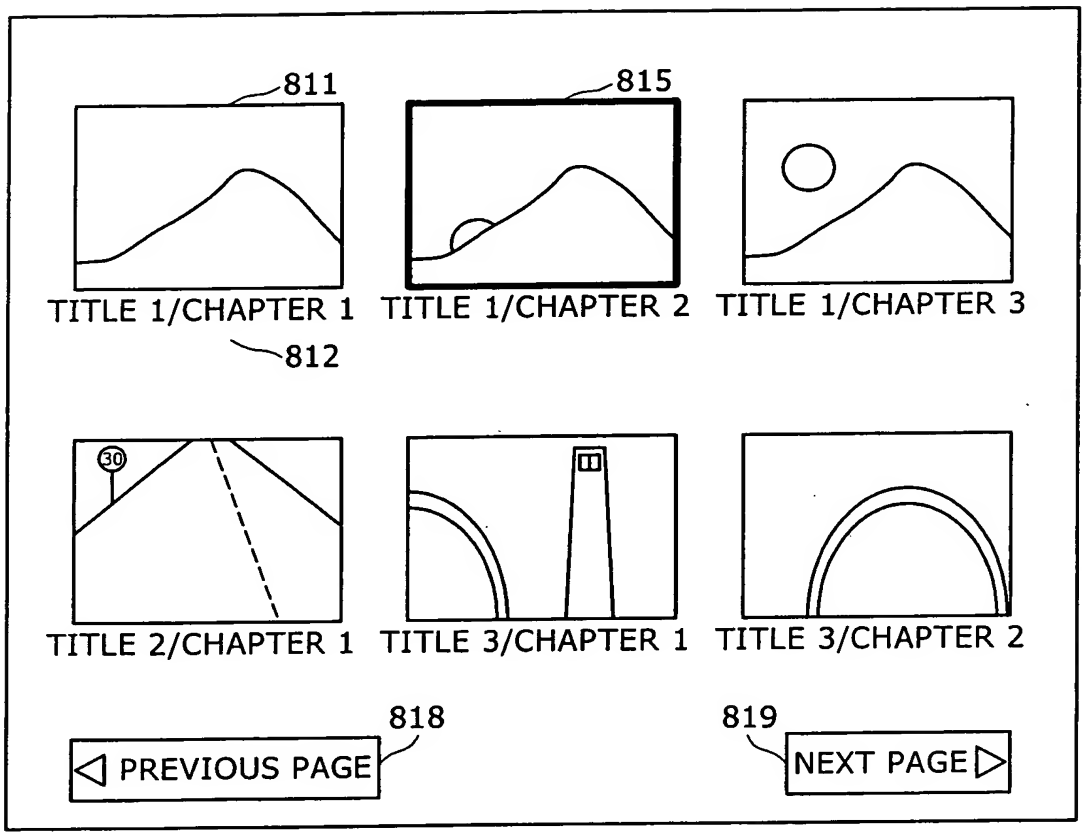

811
815
TITLE 1/CHAPTER 1
TITLE 1/CHAPTER 2
TITLE 1/CHAPTER 3
812
30
TITLE 2/CHAPTER 1
TITLE 3/CHAPTER 1
TITLE 3/CHAPTER 2
818
PREVIOUS PAGE
819
NEXT PAGE

FIG. 14

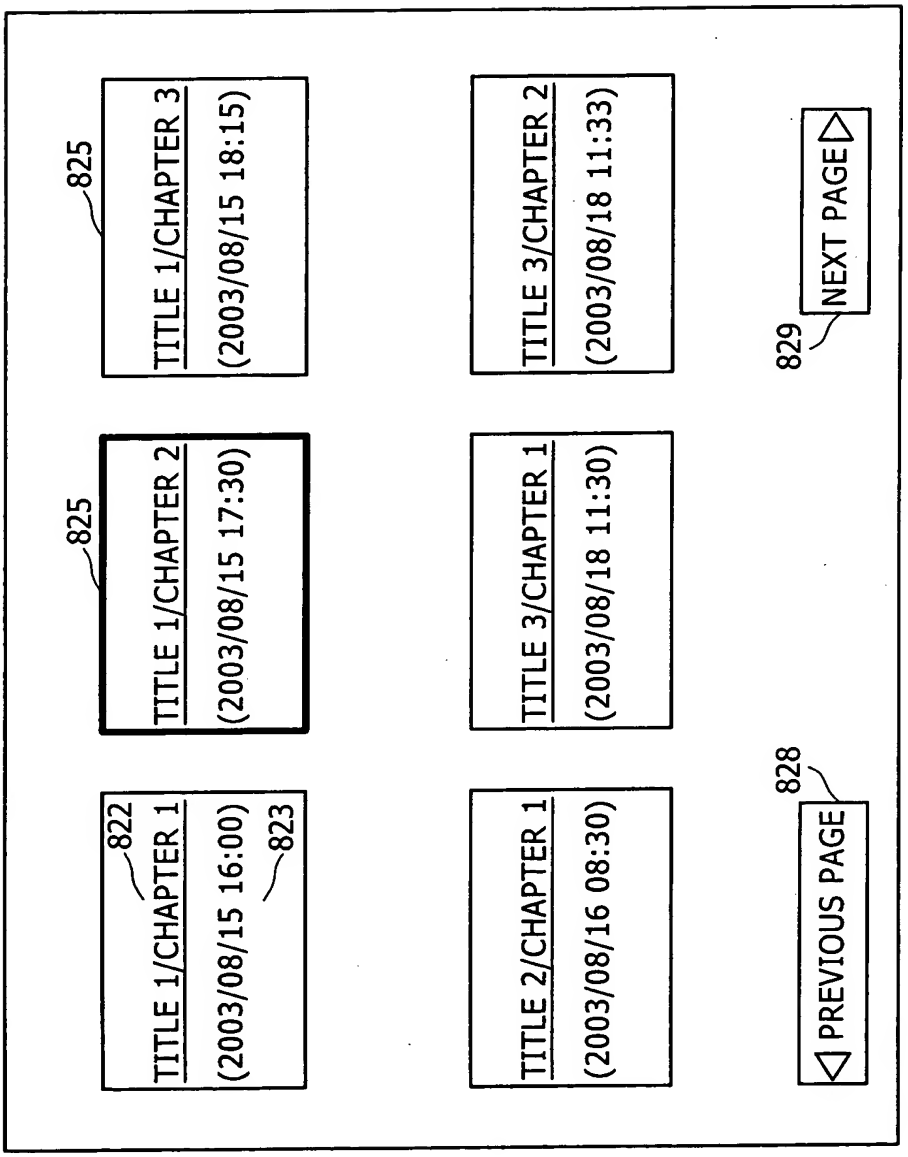

825
TITLE 1/CHAPTER 3
(2003/08/15 18:15)
825
TITLE 1/CHAPTER 2
(2003/08/15 17:30)
822
TITLE 1/CHAPTER 1
(2003/08/15 16:00)
823
TITLE 3/CHAPTER 2
(2003/08/18 11:33)
TITLE 3/CHAPTER 1
(2003/08/18 11:30)
TITLE 2/CHAPTER 1
(2003/08/16 08:30)
829
NEXT PAGE
828
PREVIOUS PAGE

FIG. 15

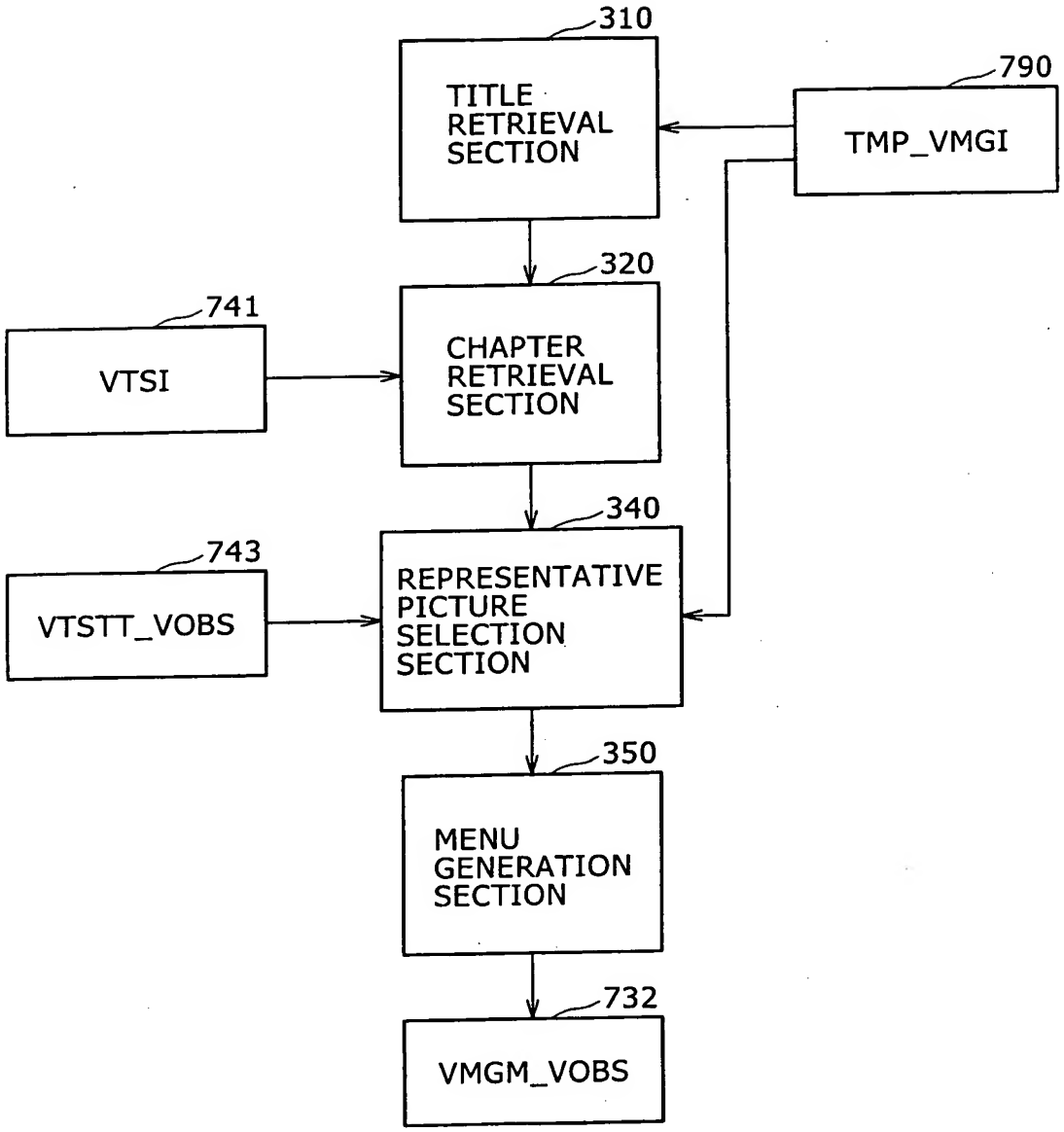

310
TITLE RETRIEVAL SECTION
790
TMP_VMGI
320
CHAPTER RETRIEVAL SECTION
741
VTSI
340
REPRESENTATIVE PICTURE SELECTION SECTION
743
VTSTT_VOBS
350
MENU GENERATION SECTION
732
VMGM_VOBS

FIG. 16

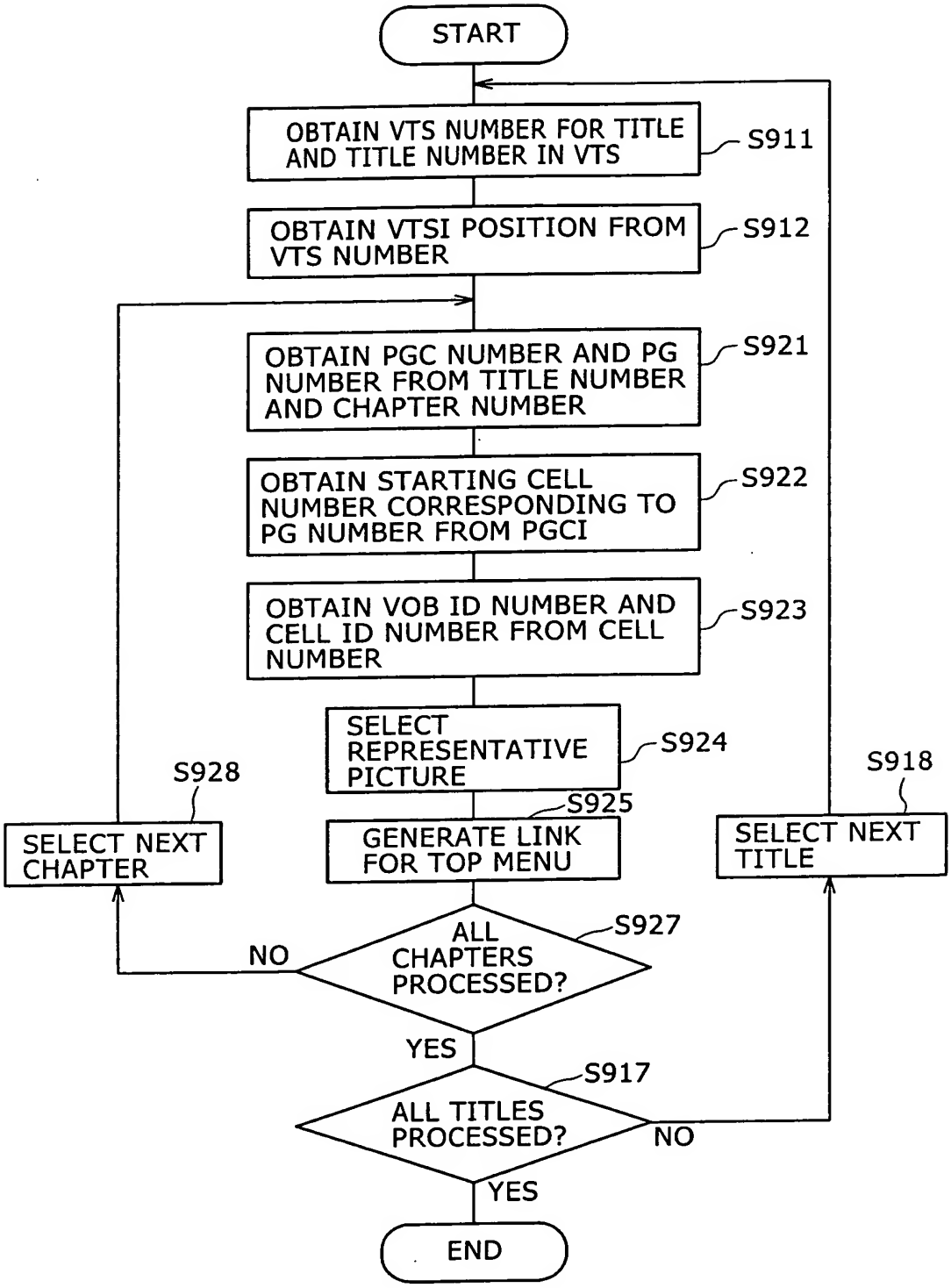

START
OBTAIN VTS NUMBER FOR TITLE AND TITLE NUMBER IN VTS
S911
OBTAIN VTSI POSITION FROM VTS NUMBER
S912
OBTAIN PGC NUMBER AND PG NUMBER FROM TITLE NUMBER AND CHAPTER NUMBER
S921
OBTAIN STARTING CELL NUMBER CORRESPONDING TO PG NUMBER FROM PGCI
S922
OBTAIN VOB ID NUMBER AND CELL ID NUMBER FROM CELL NUMBER
S923
SELECT REPRESENTATIVE PICTURE
S924
GENERATE LINK FOR TOP MENU
S925
ALL CHAPTERS PROCESSED?
S927
NO
YES
SELECT NEXT CHAPTER
S928
ALL TITLES PROCESSED?
S917
NO
YES
SELECT NEXT TITLE
S918
END

FIG. 17

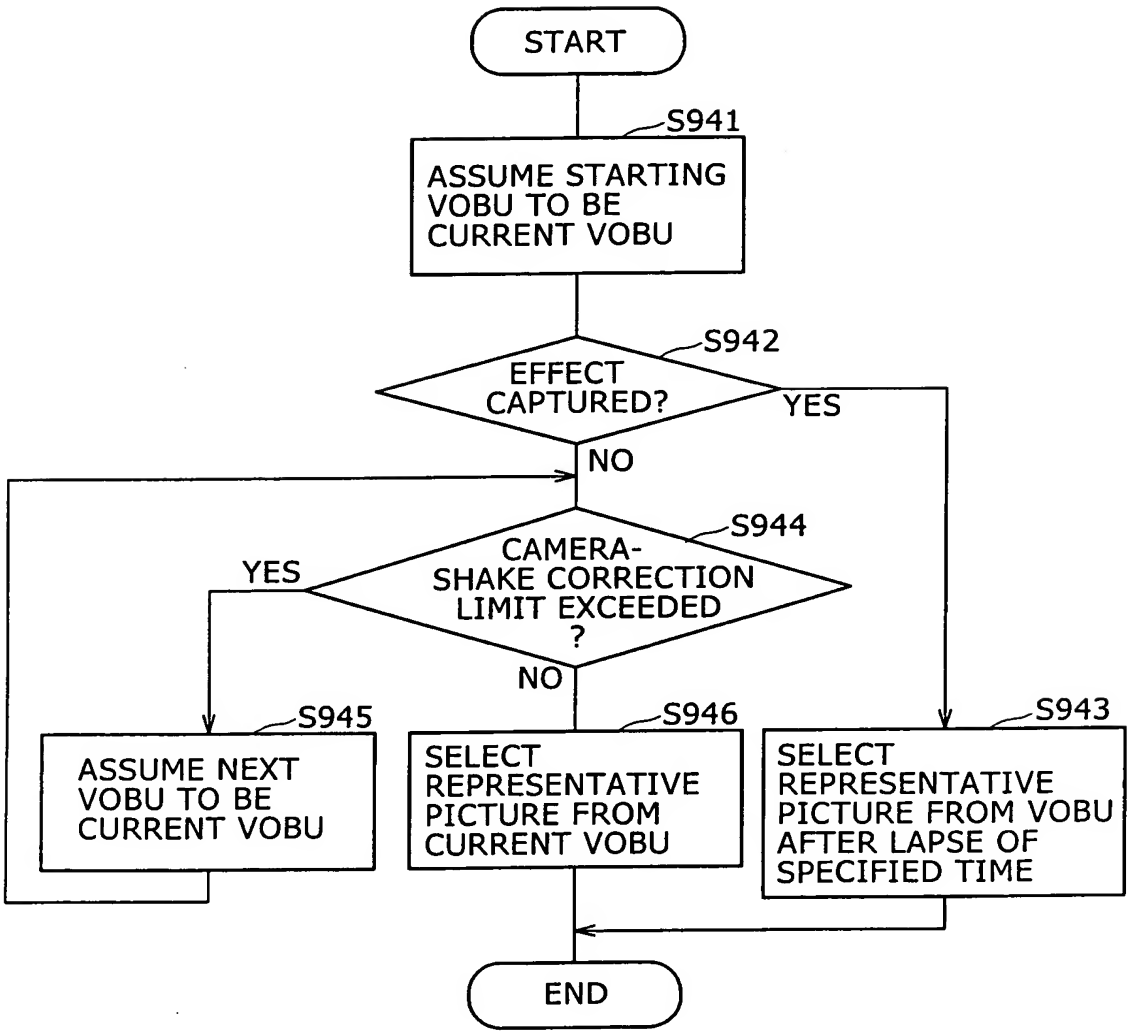

START
S941
ASSUME STARTING VOBU TO BE CURRENT VOBU
S942
EFFECT CAPTURED?
YES
NO
S944
CAMERA-SHAKE CORRECTION LIMIT EXCEEDED ?
YES
NO
S945
ASSUME NEXT VOBU TO BE CURRENT VOBU
S946
SELECT REPRESENTATIVE PICTURE FROM CURRENT VOBU
S943
SELECT REPRESENTATIVE PICTURE FROM VOBU AFTER LAPSE OF SPECIFIED TIME
END

FIG. 18

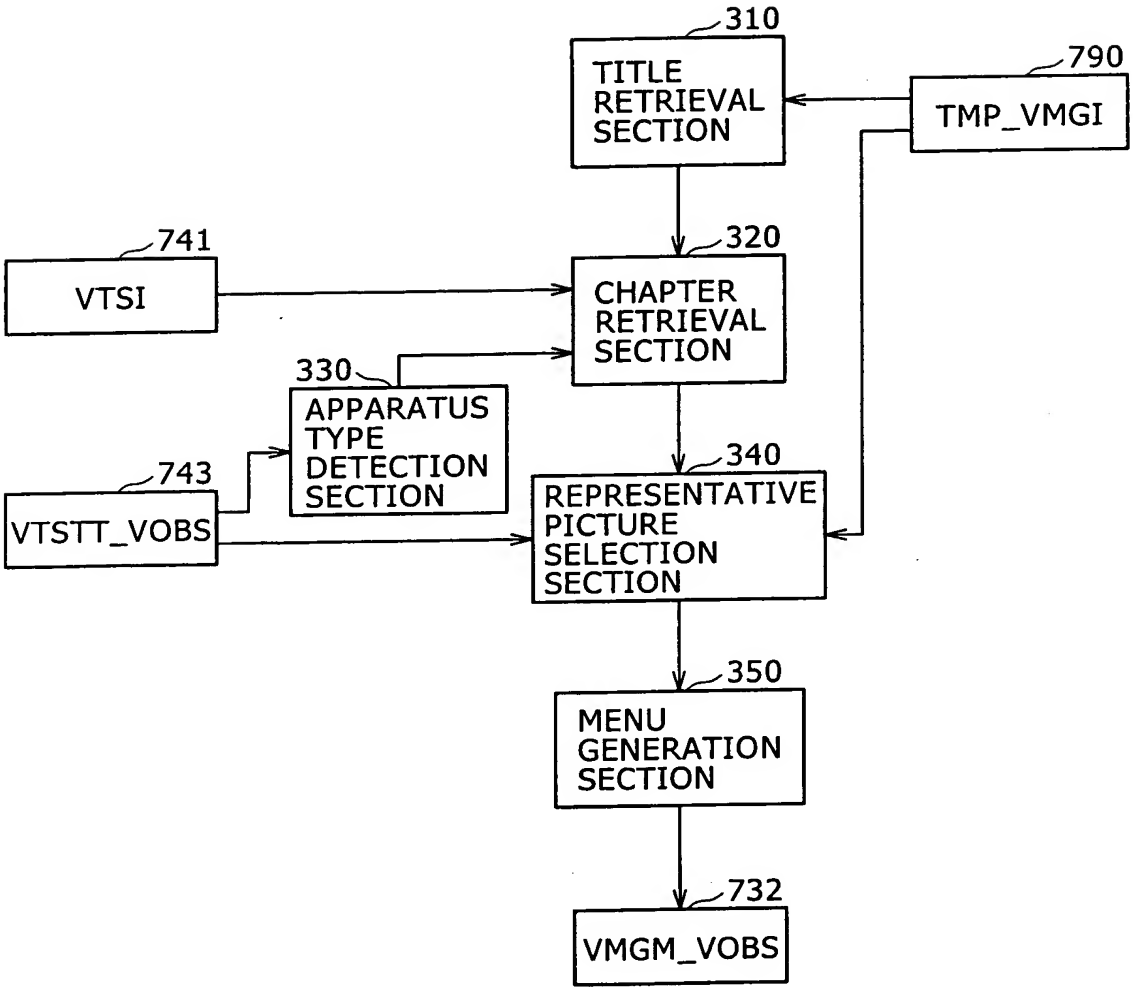
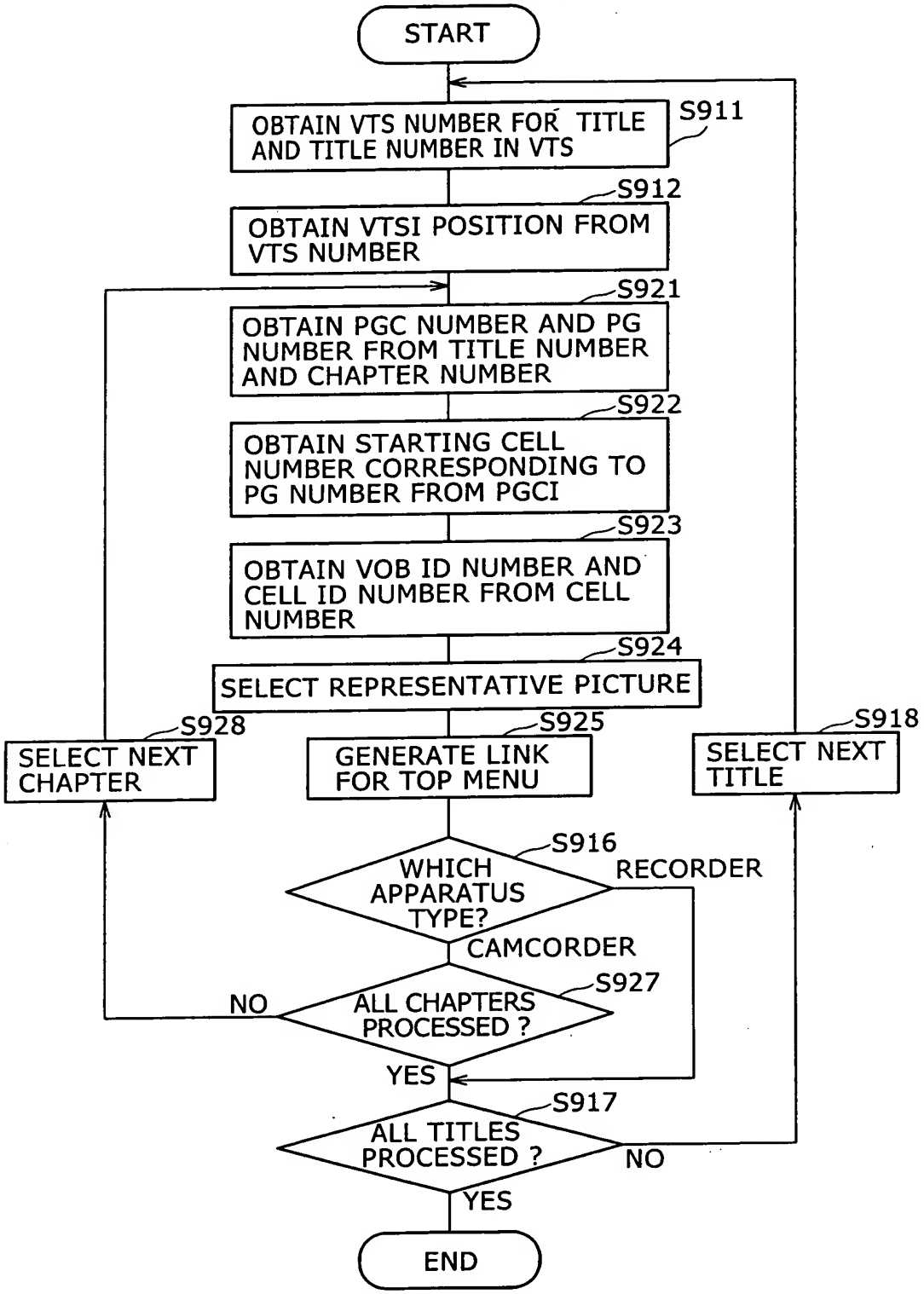

310
TITLE RETRIEVAL SECTION
790
TMP_VMGI
741
VTSI
320
CHAPTER RETRIEVAL SECTION
330
APPARATUS TYPE DETECTION SECTION
743
VTSTT_VOBS
340
REPRESENTATIVE PICTURE SELECTION SECTION
350
MENU GENERATION SECTION
732
VMGM_VOBS

FIG. 19


START
OBTAIN VTS NUMBER FOR TITLE AND TITLE NUMBER IN VTS
S911
OBTAIN VTSI POSITION FROM VTS NUMBER
S912
OBTAIN PGC NUMBER AND PG NUMBER FROM TITLE NUMBER AND CHAPTER NUMBER
S921
OBTAIN STARTING CELL NUMBER CORRESPONDING TO PG NUMBER FROM PGCI
S922
OBTAIN VOB ID NUMBER AND CELL ID NUMBER FROM CELL NUMBER
S923
SELECT REPRESENTATIVE PICTURE
S924
GENERATE LINK FOR TOP MENU
S925
SELECT NEXT CHAPTER
S928
SELECT NEXT TITLE
S918
WHICH APPARATUS TYPE?
S916
RECORDER
CAMCORDER
ALL CHAPTERS PROCESSED ?
S927
NO
YES
ALL TITLES PROCESSED ?
S917
NO
YES
END